

OIPE

## RAW SEQUENCE LISTING

DATE: 11/01/2001

PATENT APPLICATION: US/09/978,274

TIME: 10:50:20

Input Set : A:\9341028999.txt

Output Set: N:\CRF3\11012001\I978274.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Thomas, Christopher  
 4 McPherson, Michael  
 5 Atkinson, Howard  
 6 Neelam, Anil  
 8 <120> TITLE OF INVENTION: Plant Cell Death System  
 10 <130> FILE REFERENCE: 9431-028  
 12 <140> CURRENT APPLICATION NUMBER: US/09/978,274  
 12 <141> CURRENT FILING DATE: 2001-10-15  
 12 <150> PRIOR APPLICATION NUMBER: 0025225.4  
 13 <151> PRIOR FILING DATE: 2000-10-14  
 15 <160> NUMBER OF SEQ ID NOS: 32  
 17 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

651 <210> SEQ ID NO: 19  
 652 <211> LENGTH: 1092  
 653 <212> TYPE: DNA  
 654 <213> ORGANISM: Artificial Sequence  
 656 <220> FEATURE:  
 657 <223> OTHER INFORMATION: Description of Artificial Sequence: PAP-S/Cystatin  
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 660 <220> FEATURE:  
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 662 <222> LOCATION: (766)..(786)  
 663 <223> OTHER INFORMATION: TEV NIA protease cleavage site  
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 688 <223> OTHER INFORMATION: Binding site for primer SYNPOTDelta86SR

## RAW SEQUENCE LISTING

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Input Set : A:\9341028999.txt

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690 &lt;400&gt; SEQUENCE: 19

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693  atggaatctc ttcgtaatca agcgaaagat ccaaaactaa aatgctatgg cataccaatg 120
695  ctacctgata ctaattcgac ccctaagtac ttattgggta agctccaagg tgcaaaccta 180
697  aaaaccatta cactaatgct gagacgaaat aacttatacg tgatgggcta ttctgatccc 240
699  ttcaatggca ataagtgtcg ttaccatata tttaatgata ttacaagcac cgaacgcact 300
701  gatgtggaga atactctttg ctcaagttct agttctcgtg ttgcaatgtc cattaactac 360
703  aatagcttat atccgaccat ggaaaagaaa gcagaagtaa actcaagaaa tcaagtccaa 420
705  ttgggaattc aaatactcag cagtgcacatt ggaaaaatct ctggagttga ttcatccct 480
707  gtaaaaactg aggttttttt tctactggta gccatccaaa tggtttcaga ggcagcgga 540
709  ttcaagtaca tagagaacca agtcaagact aattttaata gagcattcta ccctgatccc 600
711  aaagtaatta acttggagga gaagtggggc aaaatctctg aggcaattca caatgccaa 660
713  aatggggctt tacccaaacc acttgagcta gtggatgcca aaggtaccaa gtggatagtt 720
715  cttagagtgg atgaaatcaa tegttagtgg gcactcctta agtacgaacc agtctatttc 780
717  caagggatgt catcagacgg aggaccagt ttgggaggcg tcgaaccagt tggaaatgaa 840
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724  1020
E--> 725  gtttgggaaa aaccatggat gtttaaagaa ttgcaagaat ttaaaccagt tgatgcttca
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728  1092
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921  atcccgataa acaatacaaa ttagacaata agatgacata caagtaccta aactgtgtat 120
923  gggggagtgga aacctcagct gctaaaaaaa cgttgtaaga aaaaaagaaa gttgtgagtt 180
925  aactcagagg cgaaagtatt ggaactagct agtaggaagg gaagatgaag tcgatgcttg 240
927  tggtgacaat atcaatatgg ctcatctctg caaccaacttc aacttgggct gtgaatacaa 300
929  tcatctacaa tgttgggaagt accaccatta gcaataacgc cacttttctg aatgatcttc 360
931  gtaatgaagc gaaagatcca agtttaaaat gctatggaat accaatgctg cccaatacaa 420
933  atacaaatcc aaagtacgtg ttggttgagc tccaagggtc aaataaaaaa accatcacac 480
935  taatgctgag acgaaacaat ttgtatgtga tgggttattc tgatcccttt gaaaccaata 540
937  aatgtcgtta ccatactctt aatgatatct caggtagtga acgccaagat gtagagacta 600
939  ctctttgccc aaatgccaat tctcgtgtta gtaaaaacat aaactttgat agtcgatatc 660
941  caacattgga atcaaaagcg ggagtaaaat caagaagtca ggtccaactg ggaattcaaa 720
943  tactcgacag taatattgga aagatttctg gagtgatgtc attcactgag aaaaccgaag 780
945  ccgaattcct attggtagcc atacaaatgg tatcagaggc agcaagattc aagtacatag 840
947  agaatcaggt gaaaactaat tttaacagag cattcaaccc taatcccaa gtacttaatt 900
949  tgcaagagac atggggtaag atttcaacag caattcatga tgccaagaat ggagttttac 960
E--> 951  ccaaacctct cgagctagtg gatgccagtg gtgccaagtg gatagtgttg agagtggatg
952  1020
E--> 953  aaatcaagcc tgatgtagca ctcttaaact acgttggtgg gagctgtcag acaacttata
954  1080
E--> 955  accaaaatgc catgtttcct caacttataa tgtctactta ttataattac atggttaac

```

*format  
error  
(see item 1  
on Error  
summary  
sheet)*

*see  
p. 3, too*

*done*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/978,274

DATE: 11/01/2001

TIME: 10:50:21

Input Set : A:\9341028999.txt

Output Set: N:\CRF3\11012001\I978274.raw

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958 1200
E--> 959 ccaactatat tataaagctt aaataagagg ccgtgttaat tagtacttgt tgccttttgc
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967 <210> SEQ ID NO: 31
968 <211> LENGTH: 1378
969 <212> TYPE: DNA
970 <213> ORGANISM: Phytolacca americana
972 <400> SEQUENCE: 31
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975 atoccgataa acaatacaaaa ttagacaata agatgacata caagtaccta aactgtgtat 120
977 gggggagtgta aacctcagct gctaaaaaaa cgttgtgaaga aaaaaagaaa gttgtgagtt 180
979 aactacaggg cgaaagtatt ggaactagct agtaggaagg gaagatgaag tcaatgcttg 240
981 tgggtgacaat atcaatatgg ctcatctctg caccaacttc aacttgggct gtgaatacaa 300
983 tcatctacaa tgttggaagt accaccatta gcaaatacgc cacttttcgg aatgatcttc 360
985 gtaatgaagc gaaagatcca agtttaaaat gctatggaat accaatgctg cccaatacaa 420
987 atacaaatcc aaagcacgtg ttggttgagc tccaagggtc aaataaaaaa accatcacac 480
989 taatgctgag acgaaacaat ttgtatgtga tgggttattc tgatcccttt gaaaccaata 540
991 aatgtcgtta ccatatcttt aatgatattc cagggtactga acgccaagat gtagagacta 600
993 ctctttgccc aaatgccaat tctcgtgtta gtaaaaacat aaactttgat agtcgatatc 660
995 caacattgga atcaaaagcg ggagtaaaat caagaagtca ggtccaactg ggaattcaaa 720
997 tactcgacag taatattgga aagattttctg gagtgtatgc attcactgag aaaaccgaag 780
999 ccgaattcct attggtagcc atacaaatgg tatcagaggc agcaagattc aagtacatag 840
1001 agaatcaggt gaaaactaat tttaacagag cattcaacc taatcccaaa gtacttaatt 900
1003 tgcaagagac atggggtaag atttcaacag caattcatga tgccaagaat ggagttttac 960
E--> 1005 ccaaacctct cgagctagtg gatgccagtg gtgccaaagt gatagtgttg agagtggatg
1006 1020
E--> 1007 aaatcaagcc tgatgtagca ctcttaaact acgttgggtg gagctgtcag acaacttata
1008 1080
E--> 1009 accaaaatgc catgtttcct caacttataa tgtctactta ttataattac atggttaatc
1010 1140
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1012 1200
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<210> 28

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: TEV NIA  
protease cleavage site (i)

<400> 28

Glu Xaa Xaa Tyr Xaa Gln Gly  
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*see item 9 on Ena Summary Sheet*

<210> 29

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: TEV NIA  
protease cleavage site (ii)

<400> 29

Glu Xaa Xaa Tyr Xaa Gln Ser  
1 5

*item 9*

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/978,274

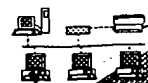
DATE: 11/01/2001

TIME: 10:50:22

Input Set : A:\9341028999.txt

Output Set: N:\CRF3\11012001\I978274.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:723 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1020 SEQ:19  
M:254 Repeated in SeqNo=19  
L:895 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:28  
L:895 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28  
L:895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:909 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:29  
L:909 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:29  
L:909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:951 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1020 SEQ:30  
M:254 Repeated in SeqNo=30  
L:1005 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1020 SEQ:31  
M:254 Repeated in SeqNo=31



## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/978,274

Source: OIPE

Date Processed by STIC: 11/1/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**